

FIG. 1

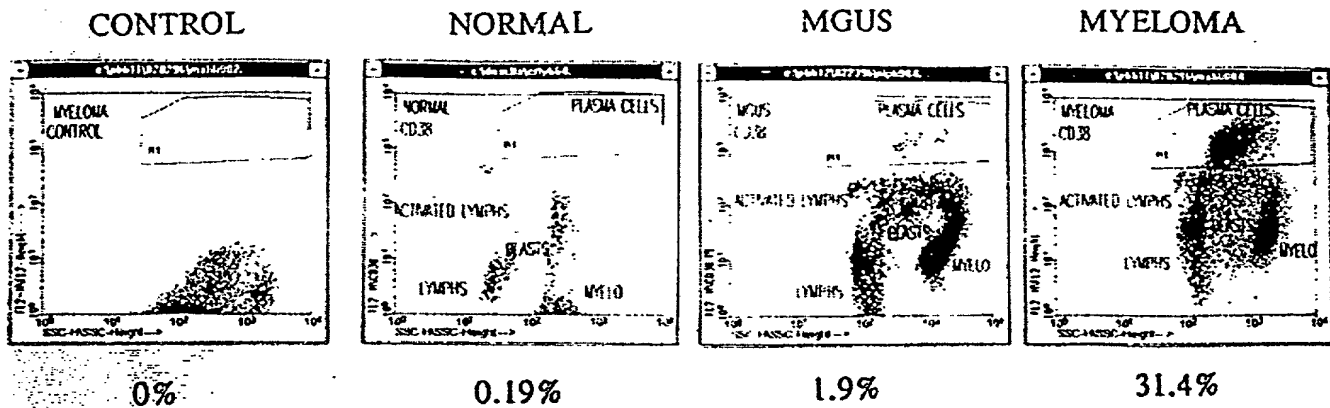


FIG. 2

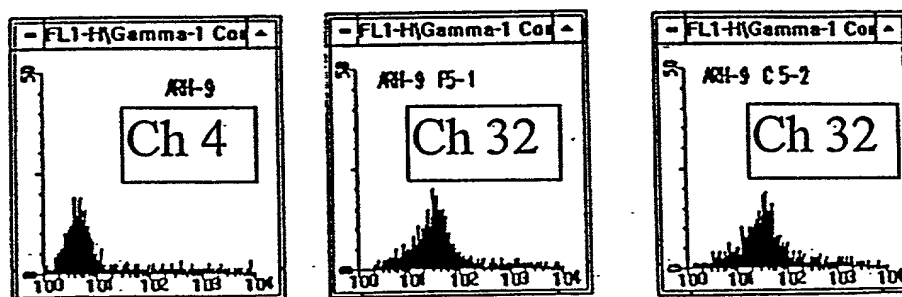


FIG. 3

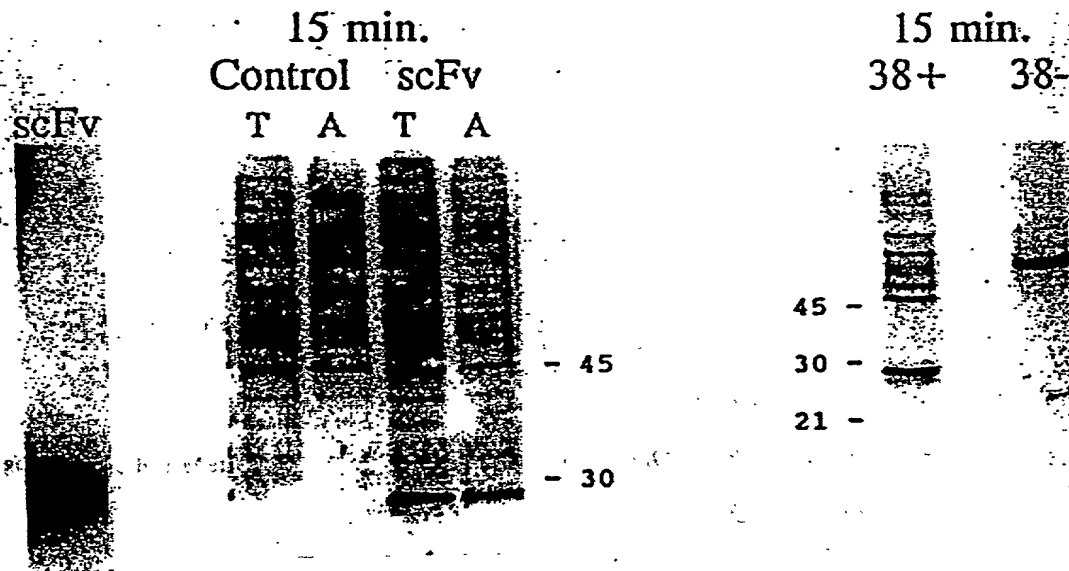


FIG. 4

ANTI-CD38 scFv

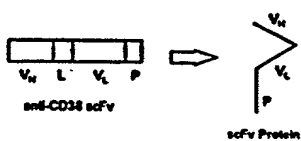


FIG. 5

ANTI-CD38 scFv



FIG. 6

[illegible]

FIG. 6 (con't)

TGTGACCCCAAGCGGTCAGAGGTCCTTTCCAGACCTCACCGACCCCTCACTATACCTCTCC

T L G S P V S R K G S G V A G S D M E R -
H W V R Q S P G K G L E W L G V I W R G -
T G F A S L Q E R V W S G W E * Y G E V -

	N			
CB C	l B	H	B S	
vsTAv	aBs	HD i	ss f	
iosli	Ibp	pd n	at a	
RFeuJ	IvG	he 4	Jy N	
IIIII	III	II I	II I	

181 TGGGAAGCACAGACTACAATGCAGCTTTTCATGTCCAGACTGAGCATCACCAAGGACAACCTC 240

ACCTTCGTGTCTGATGTTACCTCGAAAGTACAGGTCTGACTCGTAGTGTTCTCTGTTGAG

W K H R L Q C S F H V Q T E H H Q G Q L -
G S T D Y N A A F M S R L S I T K D N S -
E A Q T T M Q L S C P D * A S P R T T P -

C		CC C	T
v	MD	v a Av	s
i	sr	i c li	p
J	ea	R 8 uJ	R
I	II	I I II	I

241 CAAGAGCCAAGTTTTCTTTAAAATGAACAGTCTGCAAGCTGATGACACTGCCATATACTT 300

GTTCTCGGTTCAAAGAAATTTTACTTGTCTGACAGCTTCGACTACTGTGACGGTATATGAA

Q E P S F L * N E Q S A S * * H C H I L -
K S Q V F F K M N S L Q A D D T A I Y F -
R A K F S L K * T V C K L M T L P Y T S -

	S H S
BC	a CBaN A NB Pa
SV	B uBvsels vHlsDsu
ci	f 9siaIat apaash9
GJ	i 6rJJIIy IhIJJaG
II	I IIIIIVI IIVIIII

301 CTGTGCCAAAACCTTGATTACGACGGGCTATGCTATGGACTACTGGGGCCCAAGGGACCAC 360

GACACGGTTTTTGAACATAATGCTGCCCGATACGATACCTGATGACCCCGGTTCCCTGGTG

L C Q N L D Y D G L C Y G L L G P R D H -
C A K T L I T T G Y A M D Y W G Q G T T -
V P K P * L R R A M L W T T G A K G P R -

BMT	B	S
Bsas	BBs	a
step	ssuDM	AEu D

eEI4	m	mm3dn	nc	nw	cc	w	i	c	cc3	p
RIIS	F	AB6el	li	lo	ii	o	J	i	iiA	n
IIII	I	IIIII	II	II	II	I	I	I	III	I

GGTCACCGTCTCCTCAGGTGGAGGCGGTTTCAGGCGGAGGTGGCTCTGGCGGTGGCGGATC

FIG. 6 (con't)

361 -----+-----+-----+-----+-----+-----+ 420

CCAGTGGCAGAGGAGTCCACCTCCGCCAAGTCCGCCTCCACCGAGACCGCCAACCGCCTAG

G H R L L R W R R F R R R W L W R W R I -
V T V S S G G G G S G G G S G G G S -
S P S P Q V E A V Q A E V A L A V A D R -

		B				T
		Bs				MTt
		sp				
H		CBI1	B		B	BHHash
i	A T	AvaH2DFSS	Bs	M	s B	H siiep1
n	l a	linK8doaa	cm	n	m f	p annI41
4	w q	uJIA6ekcX	cA	l	A a	h X4fY51
I	I I	IIIIIIIII	II	I	I I	I IIIII

GGACATCGAGCTCACTCAGTCTCCATCCTCCTTTTCTGTATCTCTAGGAGACAGAGTCAC

421 -----+-----+-----+-----+-----+-----+-----+ 480

CCTGTAGCTCGAGTGAGTCAGAGGTAGGAGGAAAAGACATAGAGATCCTCTGTCTCAGTG

G H R A H S V S I L L F C I S R R Q S H -
D I E L T Q S P S S F S V S L G D R V T -
T S S S L S L H P P F L Y L * E T E S P -

P	C		E	E
l	V		CcS	c S
e	i	M	Voc	c c
I	R	n	iRr	R r
I	I	l	JIF	I F
		I	III	I I

CATTACTTGCAAGGCAAGTGAGGACATATATAATCGGTTAGCCTGGTATCAGCAGAAACC

481 -----+-----+-----+-----+-----+-----+-----+**540**

GTAATGAA CGTTCCGTTC ACTcCTGTATATATTAGCCAATCGGACCATAGTCTCTTG

H Y L Q G K * G H I * S V S L V S A E T -
I T C K A S E D I Y N R L A W Y Q Q K P -
L L A R Q V R T Y I I G * P G I S R N Q -

A	B	C			C					N
VB	SS	V	M		V	B		B	B	I
rf	at	i	s		i	s		f	s	a
Ia	Jy	J	e		R	r		i	r	I
IIII	I	I	I		I	I		I	I	V

AGGAAATGCTCCTAGGCTCTTAATATCTGGTGCAACCAGTTTGGAAACTGGGGTTCCTTC

541 TCCTTTACGAGGATCCGAGAATTATAGACCACGTTGGTCAAACCTTTGACCCCAAGGAAG 600

R K C S * A L N I W C N Q F G N W G S F -
G N A P R L L I S G A T S L E T G V P S -
E M L L G S * Y L V Q P V W K L G F L Q -

H	T	S	E	
it	s	Ba T	c	M
nf	p	suDs	Do	Bb B
		t3pp	d5	bo s

fi R YAnR w e7 sI r

[illegible]

M	E	H		U	M		A
b	c	i		RSb	a	BM	v
o	o	n	c	sca	e	sn	a
I	5	c	j	aaC	I	ll	I
I	7	I	e	III	I	II	I
I	I	I	I	//	/	/	

* R C C Y L L L S T V L E Y S Y V R W R -
E D V A T Y Y C Q Q Y W S T P T F G G G -
K M L L L I T V N S I G V L L R S V E G -

S				H
Na	C	B	B B C BB Ga	
lu	Av	s	s AsEvAsSEdeNTT	
a9	li	m	c coaicioaiIoa	
I6.	uJ	F	G iFeJiEFgIIitu	
VI	II	I	I IIIIIIIIIIII	
/	/		/ /IIIIIIII	

D Q A G N Q T G G R -
T K L E I K R A A -
P S W K S N G R P -